

IN THE ABSTRACT:

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ABSTRACT

The invention herein is a four-wheel, all-terrain vehicle, which may be selectively operated in four-wheel drive, front-wheel drive, rear-wheel drive or even opposing front/rear wheel drive. The vehicle has dual electric motors, each of which is selectively operable independently of the other. A first electric motor is selectively engageable with a drive mechanism which drives the front wheels of the vehicle. Universal joint between front wheels and front wheel drive mechanism makes the front wheels of the vehicle steerable. The second electric motor is selectively engageable with a drive mechanism which drives the rear wheels of the vehicle. An electric storage battery provides electric power for said first and second motors.

(New)

ABSTRACT

Described is a battery powered, four-wheel, all-terrain vehicle, with independently operable, variable speed, bi-directional electric motors, one of which may selectively used to drive the front wheels of the vehicle, the other of which may be selectively used to drive the rear wheels of the vehicle. A front differential drive mechanism allows the front wheels to operate at different speeds. Front wheels of the vehicle are steerable through universal joints disposed between the front differential mechanism and each front wheel. A rear differential drive mechanism allow the rear wheels to rotate at different speeds. By selectively choosing whether to engage front and rear wheels and the direction they rotate, the vehicle may be operated as a four-wheel drive vehicle, a front-wheel drive vehicle, a rear wheel drive vehicle, with all four wheels disengaged, or even with front and rear wheels rotating in opposite directions.